UniGear Digital
Improves cost-efficiency in your operations

With UniGear Digital you gain unprecedented flexibility for any application. The digital solution takes full advantage of well-proven components: current and voltage sensors, protection and control relays with IEC 61850 digital communication to ensure a reliable and efficient electrical network.

UniGear Digital benefits

Safe and reliable
- Increased equipment reliability and safety in your substation
- Extended communication supervision functionality

Intelligent and ready for the future
- Implement changes easily as requirements change
- Flexibility towards varying load flows
- Late customizations and changes possible

Simple and efficient
- Minimized lifetime costs
- Saves space in your switchgear room by reducing switchgear footprint
- 30 % quicker delivery time from order to switchgear operation

Lower environmental impact
- Lowers energy consumption up to 250 MWh
  which represents saving of 13 000 EUR
- Saves up 150 tons of CO₂, that is equal to emissions produced by mid-size European car driven for 1 250 000 km

Global solution
- Available for projects according to IEC, GOST and CSA standards

UniGear Digital represents an advanced switchgear solution as it meets important requirements of the future:
- Unprecedented flexibility
- Increased process efficiency
- Lower cost of operation
- Maximized integration
- Reliability and safety

With UniGear Digital you avoid many of the practical challenges you face in today’s complex applications, you simply have less to worry about in your electrical network.

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* compared to a conventional UniGear ZS1
** compared to typical substation with 14 switchgear panels of UniGear ZS1 type over 30 years of operation
Available products

UniGear Digital solution is available for the following switchgear types:
- UniGear ZS1
- UniGear 550
- UniGear 500R
- UniGear MCC

Overview of UniGear Digital solution in the UniGear product family

<table>
<thead>
<tr>
<th>Switchgear type</th>
<th>Busbar arrangement</th>
<th>UniGear Digital</th>
<th>Voltage level</th>
<th>Rated feeder current</th>
<th>Rated short-circuit current</th>
</tr>
</thead>
<tbody>
<tr>
<td>UniGear ZS1</td>
<td>Single busbar</td>
<td></td>
<td>up to 24 kV</td>
<td>up to 4 000 A</td>
<td>up to 63 kA / 1 s</td>
</tr>
<tr>
<td></td>
<td>Double busbar</td>
<td></td>
<td>up to 17.5 kV</td>
<td>up to 4 000 A *</td>
<td>up to 31.5 kA / 3 s</td>
</tr>
<tr>
<td></td>
<td>Back To Back</td>
<td></td>
<td>/</td>
<td>up to 4 000 A</td>
<td>up to 50 kA / 3 s</td>
</tr>
<tr>
<td>UniGear 550</td>
<td>Single busbar</td>
<td></td>
<td>up to 17.5 kV</td>
<td>up to 1 250 A</td>
<td>up to 31.5 kA / 3 s</td>
</tr>
<tr>
<td>UniGear 500R</td>
<td>Single busbar</td>
<td></td>
<td>/</td>
<td>up to 2 000 A</td>
<td>up to 31.5 kA / 3 s</td>
</tr>
<tr>
<td>UniGear MCC</td>
<td>Single busbar</td>
<td></td>
<td>up to 12 kV</td>
<td>up to 400 A</td>
<td>up to 50 kA / 3 s</td>
</tr>
</tbody>
</table>

* Double busbar-disconnector feeders rated current: up to 2 500 A; Double busbar feeder rated current: 3 150 A - 4 000 A
** IEC version

UniGear Digital

Protection relay with IEC 61850

Low voltage compartment

Apparatus compartment

Voltage sensor

Cable compartment

Busbar compartment

Current sensor

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